## Artificial Limbs

**VOLUME 11, 1967** 

COMMITTEE ON PROSTHETICS RESEARCH AND DEVELOPMENT DIVISION OF ENGINEERING

and

COMMITTEE ON PROSTHETIC-ORTHOTIC EDUCATION
DIVISION OF MEDICAL SCIENCES

of the

NATIONAL RESEARCH COUNCIL

NATIONAL ACADEMY OF SCIENCES

2101 Constitution Ave.

Washington, D. C. 20418

Artificial Limbs is a publication of the Committee on Prosthetics Research and Development and the Committee on Prosthetic-Orthotic Education, National Research Council, issued twice a year, in the spring and in the autumn, in partial fulfillment of Veterans Administration Contract V1005M-1914, Vocational Rehabilitation Administration Contracts SAV-1061-66, SAV-1062-68, and 67-66, and Children's Bureau Contract WA-CB-67-01. Copyright © 1968 by the National Academy of Sciences. Quoting and reprinting are freely permitted, providing appropriate credit is given. The opinions expressed by contributors are their own and are not necessarily those of either of the committees. Library of Congress Catalog Card No. 55−7710.

Editorial Board: Eugene F. Murphy, Ph.D., Prosthetic and Sensory Aids Service, Veterans Administration, New York City; Herbert Elftman, Ph.D., College of Physicians and Surgeons, Columbia University, New York City; Charles D. Shields, M.D., University of Vermont Medical College, Burlington, Vt.

## CONTENTS

No. 1, Spring 1967		
SURGEONS AND SOCKETS		
A	Anthony Staros	i
LIMB PROSTHETICS-1967		
A	A. Bennett Wilson, Jr	1
NEW CONCEPTS IN THE M	ANAGEMENT OF LOWER-EXTREMITY AMPUTEES	
A	A. Bennett Wilson, Jr	47
EXPERIENCES WITH THE TO	TAL-CONTACT PROSTHESIS	
C	Georg Bakalim	51
No. 2, Autumn 1967		
STILL A LONG WAY TO GO	0	
	D. S. McKenzie	1
EXTERNAL POWER IN PROS	STHETICS AND ORTHOTICS, AN OVERVIEW	
J	ames B. Reswick and Lojze Vodovnik	5
NEED FOR RESEARCH IN	N SURGICAL AND MEDICAL CONSIDERATIONS DEALING WITH HOTICS	
C	George T. Aitken	22
NEED FOR RESEARCH IN FU	INDAMENTAL BIOMECHANICAL STUDIES	
J.	Raymond Pearson	24
APPLICATION OF PROSTHE	TICS-ORTHOTICS PRINCIPLES TO TREATMENT OF FRACTURES	
A	augusto Sarmiento and William F. Sinclair	28
THE GERIATRIC AMPUTEE		
R	obert Mazet, Jr	33
ORTHOTICS MEASUREMENT	T BOARD FOR TIBIAL TORSION AND TOE-OUT	
н	lans R. Lehneis	42
BIBLIOGRAPHY OF THE PH	YSICAL PROPERTIES OF THE SKELETAL SYSTEM	
F	. Gaynor Evans	48
REVIEW OF VISUAL AIDS	FOR PROSTHETICS AND ORTHOTICS, CONTINUED	67
NEWS AND NOTES FROM	THE ARTIFICIAL LIMB PROGRAM	
	Spring, p. 58; Autumn, p. 70	



